

# NEWSLINE

Published weekly for employees of Lawrence Livermore National Laboratory

Friday, November 3, 2000

Vol. 25, No. 44



JOSEPH MARTINEZ/TID

From the left: Ken Turteltaub of BBRP leads Jeanine Stiles of the UC Davis Medical Center and Ralph deVere White, UC Davis Cancer Center director, on a tour of LLNL Medical Technology labs.

## Lab, Davis team up for cancer research

The Laboratory and the UC Davis Cancer Center have agreed to collaborate on an integrated cancer program that will bring together the advanced biomedical technologies and scientists of Livermore lab with basic science researchers and faculty oncologists from UC Davis.

“This agreement signifies an institutional com-

mitment to bringing together researchers from two different cultures: the scientists of Lawrence Livermore with the patient-centered clinical researchers of the cancer center,” said Ralph deVere White, director of the UC Davis Cancer Center.

See **CANCER**, page 6

## Dave Cooper to step down as Computation AD, Lab's chief information officer

Dave Cooper, associate director for Computation and Lab chief information officer, will step down from his position for health reasons, Director Bruce Tarter announced in an administrative memo.

Cooper will leave the Lab approximately March 31, 2001. A committee to search for candidates for the position will be put together, Tarter announced, with ADs Mike Anastasio and Spiros Dimolitsas chair and co-chairing the committee. Tarter expects to announce the full membership in the near future.

“Under Dave's leadership the Laboratory has had an extraordinarily successful five years in computational and computer science,” Tarter said.

“We now have the largest supercomputer in the world with authorization to begin work toward a facility that will ultimately house a 100 teraflop scale machine. Our research in basic computer science has greatly expanded, and computations support has been restructured so that the needs of both supercomputer users and desktop systems are effi-



Dave Cooper

See **COOPER**, page 8

## Element 114, supercomputing work win Lab science awards

The discovery of element 114 and groundbreaking work in 3D simulation were honored Tuesday with special institutional awards for extraordinarily significant science and technology achievement.

Director Bruce Tarter and Deputy Director Jeff Wadsworth presented certificates and special memorabilia to the two teams of employees as a kickoff to what will become an annual award for notable Laboratory achievements in science and technology. The science and technology awards make up a second component

See **AWARDS**, page 8

## New dialogue series explores diversity issues

A discussion of “Who Is an American? Diversity and Freedom in American History” by Columbia University Professor Eric Foner will be the point of departure for a new Laboratory dialogue focusing on issues of diversity.

The presentation takes place at 10:30 a.m. Friday, Nov. 10, in the Bldg. 123 auditorium.

Following the talk by the author of the

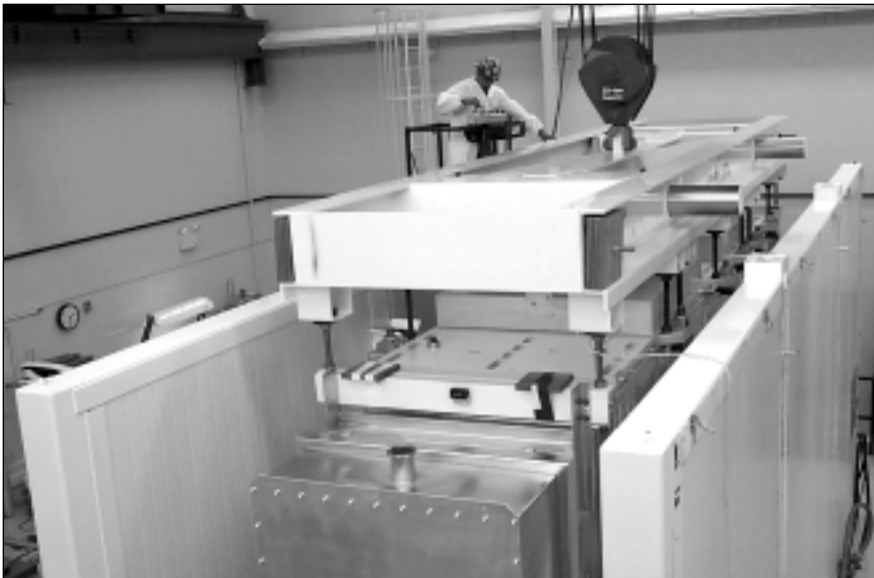
See **DIVERSITY**, page 8

## Assembly of NIF's FAU buses ready to roll

By Jason Carpenter  
TID

Another important milestone has been reached by the National Ignition Facility project. The prototype frame assembly unit (FAU) bus, the enclosure that will house the glass amplifiers for NIF, has been successfully tested, and the facility that will build the 48 FAU buses has been certified to be a class 100 clean room, the required level for final assembly.

The buses are 35 feet long and weigh 30,000 pounds (about the size of a school bus). They are composed of thousands of parts manufactured by scores of vendors throughout the United States.



The frame assembly unit bus will house the glass amplifiers for the National Ignition Facility. The prototype unit has been successfully tested.

“This is an important milestone for us,” said Doug Larson, NIF's associate project manager for Amplifier Systems. “The prototype FAU bus has been built, and the equip-

See **NIF**, page 6



**DDLS debates  
global warming**

— Page 3



**HOME off  
and running**

— Page 5



**Training  
opportunities**

— Insert





## LAB COMMUNITY NEWS

## Weekly Calendar

Technical Meeting Calendar, page 4

Saturday  
4

There are two **scheduled power outages** this weekend. The first one begins at 7 a.m. Saturday and ends at 3:30 p.m. in the following locations: Bldg. 175 and Trailers 1736, 2726, 2727, 2728, and 2775. The second one begins at 7 a.m. Sunday and ends at 3:30 p.m. in the following locations: Bldgs. 361, 362, 363, 364, 365, 367, 373, 376, 377, 181, 182, 194, 194A, 195, 198 and Trailers 3629, 3701, 3728, 1826, 1830 and 1877. Contact: Mark Cardoza at 3-0490.

Tuesday  
7

Briefings on how to apply for **LLNL Undergraduate Scholarships** for 2001 will be held at noon today and Thursday, Nov. 9, in Bldg. 571, room 2301. Outstanding full-time career employees may apply and compete for scholarships. The scholarship provides support for up to two years to complete the requirements for a bachelor's degree in a field of interest to the Laboratory. Contact: Education Office or the Employee and Organization Development Division, 4-5479.

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Want better relationships? Want to work on improving your life? **Codependents Anonymous** (CoDA) meets every Tuesday at noon. The group offers 12 steps to recovery from codependency. There will be a special meeting with a free luncheon on Nov. 14. Please call in advance for location. Contact: Mike, 3-4827, or Jane, 4-4689.

Friday  
10

Columbia University history professor and author Eric Foner will inaugurate a facilitated diversity dialogue series at 10:30 a.m. in the Bldg. 123 auditorium with a talk entitled, **"Who Is an American? Diversity and Freedom in American History."** All employees are invited to attend the presentation. Employees interested in further exploring Foner's themes and ideas may participate in facilitated group discussions immediately following the talk from noon to 1 p.m. Discussion group participants will be served lunch. Register for the group dialogue by Friday, Nov. 3, using the flyer distributed via mail or the form located at <http://www.llnl.gov/aadp/>. Contact: Michele Cardenas, 3-2796, or Lorie Valle, 2-1770.

UP  
&  
COMING

The **Falla Guitar Trio**, known for its innovative programs ranging from Bach to Bernstein to the Blues, will perform on Saturday, Nov. 18, at 8 p.m. at the First Presbyterian Church, 4th and L streets, Livermore. Tickets are \$10 for adults, \$7.50 for seniors/students. For tickets or more information, call Del Valle Fine Arts at 925-447-2752 or visit <http://www.delvallefinearts.org>.

Please send calendar items to Elizabeth Campos Rajs via e-mail at [rajs1@llnl.gov](mailto:rajs1@llnl.gov)

## Veterans Day features Vietnam POW talk

As a prisoner of war for more than six years in Vietnam, Charlie Plumb knows the meaning of challenge.

These days Plumb earns his living as a motivational speaker, drawing upon his experience as a POW to demonstrate "how to turn adversities in assets." Plumb will visit the Lab on Thursday, Nov. 9, to present "Tough Choices in Challenging Times," beginning at 11 a.m. in the Bldg. 123 auditorium. The presentation, part of the Diversity Speaker Series sponsored by Affirmative Action & Diversity Programs, will be presented in honor of Veterans Day. All employees are invited.

A graduate of the Naval Academy in Annapolis, Plumb flew 74 successful combat missions in Vietnam before he was shot down — just five days before his tour of duty was to end. He spent the next six years in various prison camps.



Charlie Plumb

Upon his release, he continued his flying career as a member of the Skyhawk Reserve Squadron; he has since retired as a Navy captain. His medals and decorations include a Silver Star, two Purple Hearts, a Bronze Star, the Legion of Merit and the POW medal, among others.

After short stints as the owner/operator of a travel agency and a public relations firm, Plumb decided to embark on motivational speaking.

More than 4,000 audiences have heard Plumb's parallels between life as a POW and the challenges of "every executive, manager and associate."

Plumb is also called on frequently for his expertise by the U.S. Navy, governmental organizations and news media, including "Good Morning America," "Nightline" and "Larry King Live." He is the author of several books, audio and videotapes, including his autobiography "I'm No Hero," now in its 25th printing.

## Retirees ready plans to spend a 'Day by the Bay'

By Bob Becker

LLNL RETIREE

The Retirees' Association is planning a "Day by the Bay" on Friday, Nov. 17. The deluxe motor coach departs Livermore for San Francisco at 9 a.m. The tour includes a ferry trip from San Francisco to the San Rafael Yacht Club, lunch, a cabaret revue, a trip to the Marin Recycling Center, a tour of the World War II Military Vehicle Museum and a return to Livermore.

Call **Ruth Miller-Will** at 447-4234. Cost is \$74. The association is also planning a trip to "Beach Blanket Babylon" on Saturday, Dec. 16. Cost is \$68.

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**Wally Samuelson** still spends a great deal of time cruising. His last card was from Alaska and he had plans for a cruise to Nova Scotia and the St. Lawrence.

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**Adele and Glynn Pence** (retired in 1990) moved to Grass Valley six years ago and spend quite a bit of time at Lake Tahoe. They just returned from the East Coast where they became official "leaf peepers." Besides quilting and making walking sticks, they enjoy golf and hiking. They plan to take their RV for a two-year trip through the United States and Canada. Their e-mail address is [agpence@juno.com](mailto:agpence@juno.com)

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I guess that I fouled up again!! **Joe and Ruth Romo's** e-mail address is: [joeandruthr@earthlink.net](mailto:joeandruthr@earthlink.net).

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**Bob Weil**, an electronic technician who retired in 1987, wrote me a long note outlining his many activities since his retirement. These activities include large construction projects on his daughter's property in northern Arizona, the maintenance and operation of a television and radio network serving 10 locations of the North Land College, and the construction of a facility to maintain VCRs, projectors and recorders. He also taught a class in basic electronics.

During one of the construction projects he fell from a ladder and broke his leg. This should be a reminder to retirees, as I've heard of many of you falling from ladders, trees and roofs: Be careful!!! After winning a battle with prostate cancer, Bob now lives in Elk Grove where his two brothers live. In his spare time, Bob is researching his family genealogy.

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**Gus Olson** (Engineering AD Office), [augusto@aol.com](mailto:augusto@aol.com), and **Jane Rubert** (Mechanical Engineering) took a trip to Cambria to visit **Sally Short** (Mechanical Engineering), [halnsal@thegrid.net](mailto:halnsal@thegrid.net). Jane and Gus are planning a trip to New Zealand. They both lost their spouses and met at the Lab Retirees' March luncheon. This is probably another valid rea-

son for single retirees to attend the luncheons. The food, company and speakers are always great. Gus and Jane also took a trip to Sonora to visit **Batita Gamble** (Electronics Engineering), [jbstudio@gol-drush.com](mailto:jbstudio@gol-drush.com), **Judy Olsen** (EE), and **Bill and Marcie March** (EE), [wjmam@mlode.com](mailto:wjmam@mlode.com).

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**Don Faraudo** and his wife **Nancy** (EE), who retired in 1988 and had been at the Lab since 1954, have traveled a lot, including trips to 49 continental states, the Yukon and all the Canadian provinces, as well as a number of UC "Bear Treks." Don's e-mail address is [nandon51@home.com](mailto:nandon51@home.com).

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I received a call from **Joe Pringle** (510) 537-8330), but because of some problems with my address, I don't have all the details. This bad news involved **Fred Shon**, who was a physicist at the Lab and worked at the reactor when it was first completed. I understand that Fred, who went to Washington D.C. to work for the government, died recently. Joe got the news from **Tom Dunkle**, who was also at the Lab in those early days.

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The Retirees' Association fall dance was its usual success. There were just too many retirees to list them all. These dinner dances are really great, so make sure that as the announcements are made, you make your reservations, even though you may not like to dance.

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Thanks for all the input. Write to Bob Becker, 1690 Frederick Michael Way, Livermore, 925-447-3867, [rcbecker@aol.com](mailto:rcbecker@aol.com)

## Newsline

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## NEWS OF NOTE

# DOE honors B Factory's program, project management

The B Factory project at the Stanford Linear Accelerator Center recently received a DOE Program and Project Management Award.

DOE acknowledged the on time, on budget completion of the \$293 million B Factory Project with its top category Deputy Secretary Award.

The B Factory Project comprised two major construction efforts, a two-ring accelerator complex built by a collaboration of SLAC, Lawrence Berkeley and Lawrence Livermore national laboratories and a 1,200 ton, particle detector built by a consortium of nine nations.

Accepting the award in Rosslyn, Va., on Oct. 17, were Jonathan Dorfman and John Seeman, representing SLAC; Karl van Bibber representing LLNL; Tom Elioff, representing LBNL; and Caltech professor David Hitlin, representing the detector collaboration.

"The process for selecting award winners was a difficult one, with many excellent DOE sites and projects in competition," said T.J. Glauthier, deputy secretary of Energy.

"I'm delighted that the B Factory was chosen out of a field of such strong contenders," said SLAC Director Jonathan Dorfman. "I cannot emphasize strongly enough the wonderful cooperation that existed among the three Bay Area labs during construction. Our colleagues at Livermore and Berkeley were outstanding."

"Building the B Factory and now doing science with it has been an exhilarating experience," said van

Bibber.

"I was very surprised and pleased to learn of this award last week. But it belongs in a singular way to Jonathan Dorfman, whose leadership of the project was outstanding. It was a great privilege for us to collaborate with him and all our colleagues at SLAC and Berkeley Lab."

The Asymmetric B Factory accelerator complex began construction in 1994 and ended in July 1998 at a cost of \$177 million. The facility collides a beam of electrons with a counter-rotating beam of anti-electrons to produce sub-atomic particles called B mesons.

By studying the disintegration patterns of the B mesons, scientists hope to understand why the Universe, which was created with equal amounts of matter and anti-matter, is now dominated by matter. In short, what happened to all the primordial anti-matter?

Concurrent with the construction of the accelerator complex, collaborators were working on the construction of the particle detector, known as BaBar, costing about \$110 million and involving nine nations, 73 institutions and over 600 people. David Hitlin, spokesperson for the collaboration, said, "This is the first big step in our attempt to measure CP violation with B mesons and thereby understand why the universe contains so much more matter than antimatter."

Laboratory contributions to the development of the project were led by van Bibber, Marshall Mugge, Lou

Bertolini and Curt Belser, who worked on construction of the accelerator, and Doug Wright and Richard Bionta, who helped develop the BaBar detector. More than 300 Lab scientists and engineers worked on the B Factory in all over the five years of construction.

"Good project management was vital for the B Factory. Its success augurs well for the Next Linear Collider (NLC) project, which will be a several billion dollar machine," said van Bibber.

The NLC is a 25 km long electron-positron TeV-scale collider, proposed to begin construction in 2004 or 2005. The design is being led by SLAC, FNAL, LBNL and LLNL, but would certainly be built as an international collaboration (for more information, see the April edition of Science and Technology Review).

A major milestone was reached on May 26 of last year when the B Factory successfully recorded the first events in the BaBar detector. It will take millions of B mesons before scientists can reach any definitive conclusions. First published results will be out in early 2001.

"With the B Factory, SLAC has a major scientific project that will take us well into the next decade," said Dorfman. "SLAC is poised to make major new contributions to basic science."

The first publicly released B Factory results were announced at an international conference in Osaka, Japan last summer.

## Women discuss three R's of employment

Recruitment, retention and rising up through the ranks were the recurring issues among the more than 300 women who attended "LLNL 2020: Women Forging the Future of Science & Technology."

The two-day symposium was held last week at the San Ramon Marriott. While most of the attendees came from the Lab, the symposium also attracted employees from Sandia and Lawrence Berkeley labs, the Stanford Linear Accelerator Center, DOE Oakland and the University of California.

How to attract the next generation of scientists in an era when competition among scientific and technological companies is at its highest was a primary component through many of the keynote speeches, a panel discussion and the various focus groups.

But as keynote speaker Shirley Weber, vice chair for the National Alliance for Restructuring Education, told the crowd, the Lab's problems with recruitment mirror those of every other institution. "You are neat, but you really aren't; Livermore is special, but it really isn't. What's happening here is happening everywhere."

With growing numbers of women and minority workers entering scientific and technological fields, the Lab must find ways to create a pipeline that will attract more people to LLNL, said Director Bruce Tarter. Tarter opened the symposium's presentations with a talk on workforce issues. Recruitment "is really the issue of the future," Tarter said.

Where those new employees go from there will really be up to the individual, agreed many of the speakers, from panelists such as Sandia Vice President Mim John or LLNL Deputy Director Jeff Wadsworth to speakers such as Weber, consultant Debra Crumpton and nuclear chemist Darleane Hoffmann. As Weber put it, "the future is in your hands." Each person is a leader, capable of forging his or her own career.

"This symposium was not about what others can make available to you, but what you can be doing to help yourself," said Cheryl Krossa, chair of LLNL 2020. "It's about taking control of your career and shaping it the way you want it."

Krossa, of the Affirmative Action & Diversity



MICHAEL ANTHONY/TID

**Shirley Weber, the opening keynote speaker at the two-day women's symposium, reminded audience members that their careers are in their own hands.**

Program, which sponsored the symposium, said her biggest reward from organizing the event "was seeing the energy of the participants. Watching non-technical women go to a technical presentation, or seeing the technical women listen to the Shirley Webers or Debra Crumptions, and come out energized was just amazing."

Krossa also thanked the many people involved in organizing and putting on the symposium, adding that the event would not have been a success without "their dedicated efforts."

"This was the largest gathering we've ever had," Krossa added. "It was an incredibly exciting mix, and I hope the participants will use that energy to achieve whatever career outcomes they desire."

Krossa said the organizers are now sorting through the feedback and other data they have received from the conference to decide "what the next step will be." Options include additional forums, smaller discussions or a formal report to managers.

## DDLS speaker to take on scientific, political debates behind global warming

Stephen Schneider, of Stanford's Department of Biological Sciences, will take on "The Global Warming Debate: Separating the Scientific From the Political," at the next installment of the Director's Distinguished Lecturer Series.

The lecture takes place at 3:30 p.m. Thursday, Nov.

9, in the Bldg. 123 auditorium. Director Bruce Tarter invites all employees to attend.

Schneider says that no responsible scientist would claim to have precise expectations about our future climate, or its implications for nature, our lives and the cost of doing something about it. According to Schneider, a great deal of consensus exists among scientists about many aspects of this topic.

Recent observations of regional climate changes and the movements of wildlife, marine systems, ice extent and the timing of vegetation life cycles made clear that there is a recognizable impact of regional climatic variations on nature.

The prime implications of this new finding are that, as the climate continues to change, we can expect natural systems to become highly stressed.

Schneider will discuss the debate between the science and the politics of global warming, and put this problem in the context of policy responses to the prospect of global warming.

The lecture will be broadcast on Lab Channel 2 Thursday, Nov. 16, at 10 a.m., noon, 2, 4 and 8 p.m., and Friday, Nov. 17, at 4 a.m.



Stephen Schneider



NEWS YOU CAN USE

DOE lifts restrictions  
on foreign national visitors

The sensitive country foreign national moratorium that restricted sensitive foreign national visits to LLNL has been lifted.

This moratorium, imposed by Section 3146 of the National Defense Authorization Act for Fiscal Year 2000 (P.L. 106-65), restricted access to LLNL facilities by any individual who is a citizen or agent of a nation on the DOE list of sensitive countries.

The moratorium had been in effect since Oct. 5, 1999, but was lifted Oct. 13, 45 days following the date on which the secretary of Energy submitted to Congress certifications from the directors of the DOE Office of Counterintelligence, the Federal Bureau of Investigation and the Office of Central Intelligence that the national laboratories' foreign visitors programs satisfy the counterintelligence and security-related requirements set forth in the statute.

The Energy secretary submitted the required certifications to Congress on Aug. 29. As of Oct. 13, waivers from the Energy secretary for visitors from sensitive countries are no longer needed. Once indices checks and other approvals have been completed, sensitive country foreign nationals are permitted on site for visits.

However, the current requirement for Secretary of Energy approval for all visits and assignments by foreign nationals from countries on the Department of State list of State Sponsors of Terrorism is still required in accordance with DOE Notice 142.1.

For more information, call the Foreign Visit Office, 3-9135.

INTERNAL TRANSFER OPPORTUNITIES

Tag	Requisition	Classification	Title	Organization
SS	783	126.2/3	Senior security administrator	Safeguards & Security
NF	1007	150.1	Resource analyst	NIF Programs
BS	1039	150.3	Principal resource analyst	Biology & Biotechnology Research Program
TI	1041	164.3/4	Technical editor/writer III/IV	Technical Information Department
TI	1067	164.3/4	Technical editor/writer III/IV	Technical Information Department
BO	665	196	Executive staff member	Procurement & Materiel Department
BO	980	196	Executive staff member	Procurement & Materiel Department
CO	788	196	Operations manager	Computation
PE	851	196	Executive staff member	Plant Engineering
CO	1081	200	Group leader	Scientific Computing & Communications
DO	1040	200	Scientist	Deputy Director for Operations
NS	985	200	Assistant associate director for Arms Control	National Security
BS	995	225	Biomedical scientist	Biology & Biotechnology Research Program
EE	827	249	Electronics engineer	Electronics Engineering
EE	992	249	Engineer	Electronics Engineering
EE	1032	249	Engineer	Electronics Engineering
EE	1057	249	Engineer	Electronics Engineering
HC	959	249	Engineer	Hazards Control
HS	976	263	Occupational health physician	Health Services
DT	1011	270	Physicist	Defense and Nuclear Technologies
AI	1170	285	Computer scientist	Administrative Information Systems
CO	1019	285	Computer scientist	Computer Applications
CO	1053	285	Computer scientist	Scientific Computing & Communications
CO	1078	285	Computer scientist	Computer Applications
EE	844	337.1	Engineering technical associate	Electronics Engineering
HS	973	371.2	Occupational nurse practitioner	Health Services
HS	1000	371.2	Senior health & safety associate	Health Services
PE	133	390.2	Shift manager/senior supervisor	Plant Engineering
CO	1005	393.1 393.2	Systems & network associate	Computation
SS	917	405.3/4	Administrative specialist III/IV	Safeguards & Security
NF	1067	405.3	Administrative specialist III	NIF Programs
BS	1062	405.4	Administrative specialist IV	Biology & Biotechnology Research Program
CO	1010	405.4	Classified administrative specialist	Computation
EE	991	531.3	Senior technologist	Electronics Engineering
EE	1044	531.3	Senior technologist	Electronics Engineering
HS	975	571.1	Health & safety technician	Health Services
HS	974	571.2	Physical/occupational therapy aide	Health Services
SS	940	653	Central alarm station operator	Safeguards & Security
SS	903	655.1	Protective service officer	Safeguards & Security
EP	1042	705.1	S&E/technical scholar	Environmental Protection Department

Technical Meeting Calendar

**Friday 3**

**MATERIALS SCIENCE & TECHNOLOGY**

"Materials Experiments at High Pressure and Strain Rate Using Intense Lasers," by Dan Kalantar.

3:30 p.m., Bldg. 235, room 1090 (uncleared area). Coffee and cookies will be served at 3:20 p.m. Contact: Thomas E. Felter, 2-8012.

**Monday 6**

**UC DAVIS, DAS**

"Uses of Pulsed Power for High Energy Density Applications," by Rick B. Spielman, Sandia National Labs. 4 p.m., Bldg. 661 (Hertz Hall), room 13 (open area).

Refreshments served at 3:30 p.m. for a "meet-the-speaker" session before seminar and at 5 p.m. after the seminar. Contact: Estelle Miller, 2-9787.

**Tuesday 7**

**HUMAN SUBJECTS COMMITTEE**

"The World According to the FDA: Ignorance Is Not Bliss," by Cynthia Kenny, IRB Specialists, Inc. 1:30 p.m., Bldg. 123 auditorium (uncleared area). Contact: IRB Office, 2-8069.

**PHYSICS & SPACE TECHNOLOGIES**

"Neutrino Induced Reactions on Nuclei — in the Lab and in Stars," by Edwin Kolbe, University of Basel, Switzerland. 10:30 a.m., Bldg. 211, room 227 (uncleared area). Contact: Frank Dietrich, 2-4521, or Pat Smith, 2-0920.

**X DIVISION**

"Near LTE and Novel X-Ray Sources," by Richard More. 1 p.m., Bldg. 319, room 205 (open area). Contacts: Dave Bailey, 2-5445, or Irene Rey, 3-6678.

**V DIVISION**

"High-Precision X-Ray Spectroscopy with Vertical Dispersion Instruments," by Oldrich Renner, Czech Academy of Sciences, Prague, Czech

Republic. 10:30 a.m. Trailer 1726, conference room (uncleared area). Contact: Raylene Miller, miller117@llnl.gov.

**Thursday 9**

**V DIVISION**

"Non-Local Thermodynamic Equilibrium Self-Consistent Average-Atom Model for Plasma Physics," by Gerald Faussurier, Commissariat A

Energi Atomique, Bruyeres-le-Chatel, France. 10:30 a.m., Bldg. 219, room 163 (uncleared area). Contact: Raylene Miller, miller117@llnl.gov.

**H DIVISION**

"Electronic Structure by Quantum Monte Carlo: Achievements and Prospects" by Lubos Mitas, University of North Carolina. 10 a.m., Bldg. 319, room 205 (uncleared area). Contacts: Jeffrey Grossman, 3-6991, or Darlene Klein, 4-4844.

**Friday 10**

**INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS**

"ISO's View on Star-Forming Regions," by Ewine van Dishoeck, University of Leiden. Noon, Bldg. 319, room 205 (open area). Contact: Joanna Allen, 3-0621.

**PHYSICS & ADVANCED TECHNOLOGIES**

"Mechanical and Constitutive Behaviour of As-Received and Irradiated Zr-2.5Nb Pressure Tube Material at High Rates of Tensile Strain," by Darren Radford, Cambridge University. 10:30 a.m., Bldg. 319, room 205 (open area). Contacts: Peter Fiske, 27489, or Miriam Rinnert, 27369.

**Monday 13**

**CHEMISTRY & MATERIALS SCIENCE**

"Mass Transport Limited ORR (Oxygen Reduction Reaction) on Chromate Conversion Coated Al-Cu, Al-Cu-Mg, and Al-Cu-Mn-Fe Intermetallic," by Gabriel O. Ilevbare, University of Virginia. 9:30 a.m., Bldg. 543, room 1244 (uncleared area). Contacts: Dan McCright, 2-7051, or Marilyn Elkins, 2-4950.

**Tuesday 14**

**CHEMISTRY & MATERIALS SCIENCE**

"Simulations of Interface Formation and Bonding Between Glasses," by Stephen Garofalini, Rutgers

University. 10:30 a.m., Bldg. 235, room 1090 (uncleared area). Contacts: Maria Caturla, 2-8964, or Linda Jones, 3-8839.

**LIVERMORE COMPUTING**

LC Customers monthly meeting. 9:30 a.m., Bldg. 451, White Room (uncleared area). Contact: Teresa Felgenhauer, felgenhauer2@llnl.gov.

**Wednesday 15**

**ASCI INSTITUTE FOR TERA SCALE SIMULATION**

"The Analysis of Algorithms: Experiments Versus Theory," by David S. Johnson, AT&T Research Laboratories. 3:45 p.m. Bldg. 543 auditorium (Please note change of location; all visitors must be badged). Contacts: David Keyes, 2-1325, or Terry Garrigan, 3-6209.

**Thursday 16**

**INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH**

"Janus — a Library for Adaptive Unstructured Scientific Applications," by Peter Gottschling, GMD First. 2 p.m., Bldg. 451, room 1025 (uncleared area). Contacts: Dan White, 2-9870, or Leslie Bills, 3-8927

**NOV. 16-17**

**ELECTRONICS ENGINEERING**

Signal and Imaging Sciences Workshop. Bldg. 123 auditorium. Contacts: Liz Kurzeika, 3-5864 or Marsha McInnis, 2-6150 .

Deadline for the next calendar is noon, Wednesday, Nov. 8. Address e-mail to tmc-submit@llnl.gov





AROUND THE LAB

A pitch for HOME



JOSEPH MARTINEZ/TID

The HOME Campaign was off and running with the start of the Run for HOME and Agency Fair last Friday. The annual race attracted more than 570 people who came to run, skate, walk or swim. Clockwise from top left: Den Fisher, Norma Hinds, Roger Werne and Wayne Shotts presented \$50 checks to race winners, in this case, top skater Van Henson. Roger Werne stepped up to the plate to make his opening pitch for the HOME Campaign and start the various races. Lara Daily was the winner in the women's competition. While some were running, others were checking out the various agencies that benefit from employee donations collected during the campaign, or they were listening to the rhythm and blues of Black Cat Bone. Trevor Willey was this year's first-place finisher in the men's competition. Other race winners include Mike McCory and Jean Schuler in the master's competition; John Crane and Nancy Schoendeinst and masters Alec Shestov and Leslie Summers in the Swim for HOME; Tiffany Rose as the top women's skater; and Dan Knight, Ruth Warwas, Joe Perez and Barbara DeRoos as the top runners in the Site 300 race.

Piecemakers provide comfort in quilts for HOME agencies

By Elizabeth Campos Rajs  
NEWSLINE STAFF WRITER

Members of the LLESA Piecemakers activity group have found a way to combine their love for quilting and needlecrafts with the joy of sharing their handiwork with others in need. What originally started 12 years ago as a small lunchtime get-together for needlecrafters has blossomed into a vibrant 72-member group that has a strong community service component. The members regularly make blankets, quilts and wheel-chair bags to give away to charitable groups. One of their latest efforts is a wall hanging quilt they donated to the HOME Campaign. It will be given away during one of the weekly incentive drawings.

"We asked for volunteers to put the blocks together and many people offered to help," said Sandy Sydnor, who worked with Donna Couture to organize the HOME quilt effort. "I love to quilt and we do a lot of nice things for others through Piecemakers. It's giving back to the community." That sentiment sums up what the Lab's annual campaign to Help Others More Effectively (hence, HOME) is all about. Each November, Lab employees raise money for a long list of local charitable organizations. The list includes employee chosen agencies as well as umbrella groups such as the Tri-Valley Community Fund, the United Way, Combined Health Appeal and Earth Share of California. Last year the campaign raised \$1.23 million from just under 50 percent employee participation.

This year the campaign hopes to reach \$1.25 million with increased employee participation. Employees who turn in their pledge forms early in the campaign are eligible to win the Piecemakers' quilt as well as one of many other prizes. Many of the Piecemakers members also belong to the Amador Valley Quilting Guild and have helped create more than 400 quilts that have been donated to many HOME Campaign organizations, including the Buenas Vidas Youth Ranch, the Tri Valley Haven for Women, Alameda County Emergency Foster Care, Hosanna Homes and the Family Crisis Shelter. "I just love to quilt. I get to do something I



## HOME

Continued from page 5

love and help other people,” said Donna Driver of Human Resources. “I really enjoy the community service aspect of the Piecemakers and the joy our quilts bring to people.”

The Piecemakers meet each Monday to work on individual projects, group efforts and to enjoy the camaraderie of like-minded crafters.

The main focus of the group right now is quilting, and most of the group’s members at least try their hand at a small quilting project.

Most of all, they enjoy sharing their love for sewing and quilting with each other, said Liena Wasley, Piecemakers chairperson and a Lab retiree.

The community service work was a natural direction for the group to take, she said.

“It started with the carpenter cradles. We thought they couldn’t go out empty so we volunteered to make doll blankets for each cradle,” Wasley said. Members of the group also started painting and stenciling the cradles, which are constructed each year by Lab carpenters during their free time and turned over to local charities during the holidays.

Wasley said she soon realized there were people in need on the opposite end of the age spectrum and started the group’s effort to make wheelchair bags and lap blankets for the Veterans Hospital and



local convalescent hospitals.

This year, the Piecemakers are donating 30 lap blankets and 25 wheelchair bags to the Veterans Hospital and are planning to present them to the patients later this month.

“These are welcome gifts. The people are always surprised,” Wasley said.

The Piecemakers are also making Christmas stockings for the Mary Graham Hall home in Stockton, which is a home for children temporarily separated from their families, Driver said.

For that effort, the Lab’s Veterans group and PSOs are helping to fill the stockings,” she added.

The group has also participated in Lynn Groves’ efforts to raise money to buy toys for needy children by donating a quilt to the drive, she said.

“Our primary purpose is a social group and learning group. The community service work is one of the great outgrowths of it,” Driver said.

**Nancy Salmon, Sandy Sydnor and Marta Holm show off the quilt that is part of the HOME incentive drawings. The quilt was created by the Piecemakers, whose members craft the decorative blankets and hand them out to various agencies that benefit from the HOME Campaign.**

ELIZABETH CAMPOS RAJS/NEWSLINE

## CANCER

Continued from page 1

“Together we can create a multidisciplinary tour de force focused on revolutionary — as opposed to evolutionary — advances in treating cancer.”

During a ceremony at the Lab Thursday, LLNL Deputy Director for Science and Technology Jeff Wadsworth noted that the collaboration reflects the principles on which Ernest Lawrence founded the Laboratory. “One of those principles was that the Laboratory should work on problems of national importance using multidisciplinary teams on projects of scale,” Wadsworth said. “I think this collaboration exemplifies those principles. Solutions to cancer are of great national importance and we’re using multidisciplinary teams from this Laboratory and UC Davis in this effort.”

“We will be combining our basic science program with the basic science program of the UC Davis Health System to bring about better methods of prevention and treatment for cancer patients,” said Jim Felton, leader of the Molecular and Structural Biology Division at the Lab. “We are very excited about the potential of this collaboration.”

Scientists from the Laboratory’s Biology and Biotechnology Research Programs, Physics and

Advanced Technologies, Engineering and Defense Nuclear Technologies, Chemistry and Materials Sciences and the Energy and Environment directorates will collaborate with UC Davis Cancer Center researchers in cancer genetics, molecular pharmacology and new drug development in investigating new approaches to cancer.

Ongoing basic science research in toxicology, carcinogenesis mutation, animal sciences and DNA repair at UC Davis will be an integral part of this collaboration as well.

Specific projects under discussion include:

- Studies of phytochemicals that may affect the development of cancer. Using high-powered computers and imaging devices, LLNL scientists are able to detect microscopic changes in the DNA of mice fed a suspected carcinogen found in grilled meat. With researchers from the UC Davis College of Agriculture and Environmental Sciences, they plan to study anti-cancer compounds found in broccoli and other plants to see if they can prevent these cancerous changes.

- Ultrasensitive pharmacokinetic studies using accelerator mass spectroscopy that analyze how well drugs are absorbed in the body. This study shows promise in helping physicians to fine-tune chemotherapy dosages based on an individual’s metabolism, lessening toxicity and improving chemotherapy effectiveness.

- The development of new light diffusion sensors that can detect cancer by measuring how light scatters when it is reflected inside tissue. Lab physicist Stavros Demos will work with deVere White, chair of the Department of Urology at the UC Davis School of Medicine and Medical Center, on this project.

- The development of an ultra-short-pulse laser to use the light scatter off tissue to create images that show melanomas and other cancers on the surface of the skin. Lab scientist Beop-Min Kim of the Lab’s Medical Technology Program and Karen Reiser, a research scientist in the Department of Neurological Surgery at the UC Davis Medical Center, are collaborating on this project.

The cancer agreement, formalized by a memorandum of understanding, calls for joint leadership, including adjunct academic appointments to UC Davis.

Felton, a specialist in cancer causation and prevention, has been named associate director of cancer control for the UC Davis Cancer Center. Dennis Matthews, a physicist and leader of the Medical Technology Program at the Lab, is associate director of biomedical technology.

“This is a very exciting time for us,” Matthews said, noting that the application of physical science and engineering to biomedicine is relatively recent. “With our technology, we’re adding a new complement to the cancer center.”

## NIF

Continued from page 1

ment tested. It works. This is something that really excites us. This is an example of the kind of progress we’re making on getting this laser built.”

The buses will be built in Bldg. 381, previously the home of the Beamlet laser. They are the enclosures that, when installed in NIF, will hold the flashlamps and laser glass that will transform 192 weak light pulses into the world’s most powerful laser during a NIF shot. The alignment tolerance for the large, complex units is a scant one millimeter.

One of the key design features of NIF is the high efficiency of its multi-pass amplifiers. Two NIF amplifier buses perform the amplifying function that required 120 separate amplifiers on the Nova laser. Making this work, however, calls for the amplifiers to be designed in a very compact manner.

The buses achieve this by meeting a challenging combination of size, precision and cleanliness require-

ments. Each FAU bus holds either seven or 11 amplifier modules, which contain powerful flashlamps and slabs of laser glass. When the flashlamps “flash,” energy stored in the laser glass is released, amplifying the power of the beams passing through each module.

A kinematic mount system fixes the amplifier modules’ positions precisely relative to the rest of the laser. An additional constraint was that the FAU buses had to be designed to work with robotic transport vehicles that will be needed to move such large equipment safely and precisely.

“This milestone required that we build a prototype FAU bus and test its alignment, the performance of the assembly equipment, and the safety and repeatability of the installation process,” said Buzz Pedrotti, lead engineer for Amplifier Mechanical Systems. “But after these units get built, they have to be transported cleanly across the Lab to the main laser building. We packed the unit up and drove it around to simulate the transport route that the real units will undergo. After the transportation test it was still aligned.”

Like many other pieces in the NIF’s complex system, the FAU buses must be built in a clean room in order to provide a clean environment for the laser optics. In early September, that milestone, too, was met when the facility used to build the prototype earned its status as a class 100 clean room. This means that the room has about 1,000 times fewer microscopic dust particles in the air than a standard office building. After installation, the amplifier enclosures must achieve a cleanliness level that rivals the best microchip fabrication facilities.

The next step for Pedrotti’s group is to verify the clean assembly procedure. The facility will then begin producing a pair of FAU buses per month for two years, which will then be installed into the main laser building.

“From the prototype, we know we can build and move the FAUs safely without losing performance,” said Pedrotti. “The entire team, led by Ernie Moor, has done a heroic job getting us to this point. Now that the facility is officially clean enough, we’re ready to start building the real thing.”



CLASSIFIED ADS

See Newsline at <http://www.llnl.gov/PAO/Newsstand/internal-comm.html>

AUTOMOBILES

1997 - Saturn SL2,4D. 56K miles, exclnt condition. Extras. \$10,000 OBO 209-835-6861

1993 - Mustang GT Hatchback, Black,Loaded,Grey Leather,Auto, Sony CD Changer,Chrome ponies,New brakes, Nov 01 tabs,only 60k mi. \$8,900 925-961-0601

1993 - Pontiac Grand Prix. Excellent condition, A/C, AM/FM/ Cassette, Cruise. \$4900 925-485-1988

1992 - Chevy Lumina Eurosport 2dr, A/T, A/C, cruise, rear spoiler, new tires. 130k hiway miles Exc. cond. Sporty! \$4,495 925-846-1389

1996 - Toyota Corolla- 4Door, auto AC/PW/PS/PI 79K Fwy miles Great Condition, Tags due 08/01 \$7,500 Call after 5:00 p.m. 209-339-1795

1997 - Camaro Z28. Excellent Condition in/out. 59K miles. \$16K or B.O. Must Sell. 209-832-7539

1993 - Plymouth Grand Voyager mini van, 7 passenger, Quad seating, 89K miles, no mechanical problems, roof rack, trailer hitch, extras, \$4900. 925-455-6750

1996 - GMC Suburban 1500 SLE 4WD PS PW Running Boards, Tow Package, Privacy Glass, Rear AC controls 76,000 mi. \$25,000. 925-449-8034

1997 - Honda Civic LX 70K, 4DR, Auto, A/C, PW PL, \$10,800 209-823-2845

1989 - Jeep Wrangler, Lift and Chrome package, new tires and seats, bikini and full top, alarm system, AM/FM Cassette with oversized speakers, \$7500/OBO 925-443-7480

1992 - Mercedes Benz 190E 2.6, in excellent condition with sunroof, CD changer, integrated phone. \$11,000. 925-648-0671

1993 - Ford Escort LX, dark blue, 5 speed manual, 85000mi, runs great - \$1500 firm. 925-606-5577

1989 - BMW 325ic Convertible. Red/black lthr. Loaded. Newer: top, AT, brakes, tires. Excellent condition. Smogged. Only 86K miles. \$9,400 obo 925-371-8201

1967 - Ford Galilxy 500, coup, runs, clean body, white, needs TLC, 600 OBO 925-449-3152

AUTOMOBILE ACCESSORIES

VW BUG parts, 63 transaxel \$75, 63 king pin front end \$75, 73 IRS transaxel \$75, 63 gas tank \$10, chrome hub caps \$5ea. 925-846-2843

BICYCLES

99 Bianchi Reparto Corsa Cyclocross 53cm, Brand New, complete Campy, collectors frame with complete lugs, Wound-X seatpost, \$1800 obo 925-602-5366

Children`s bicycle, medium size, good condition, wheel diameter 22in, frame size 36in, \$25/obo. 925-960-9624

BOATS

1979 master craft ski comp.excellent cond. 351 engine 600 hr orig. runs great w/extras 7,000 b/o 925-634-6028

1998 ski sanger, black scorpion,20dlx (Open Bow) 350MERC Engine (320 HP) Color: Tan/green & black stripes. Fully loaded and many extras 22,000 OBO. 925-240-0442

ELECTRONIC EQUIPMENT

Macintosh IIsi computer, 13-inch color monitor, external CD-ROM, Stylewriter II printer, extended keyboard, cables. \$100/BO. 209-835-8065

Seagate External TapeStor 800 tape backup drive, complete with Backup Exec Software for Windows. New, sealed box. \$45 925-455-4484

GIVEAWAY

FREE queen size mattress and box spring. Excellent condition. Moving, no longer need. 925-443-9509

HOUSEHOLD

Drill Press-bench, 8-inch, 1/2-inch chuck. 5-speed, all cast-iron. \$50.00. 925-447-6099

Futon- Queen Size Sofa Sleeper (Frame & Futon). Unused. Have to sell it because we need space. Best offer accepted. 925-426-0069

Sliding metal wardrobe closet doors (3 sections) fits 96 inches x 98 inches - opening-tracks included. \$20 925-447-1619

Dryer - Whirlpool electric, reconditioned newer model, almond color - \$95 925-443-5565

Fireplace insert heats up to 2400 sq ft, great cond. \$300 209-836-3969

2000 model GE washer and dryer. Never used. \$300 for the washer, \$250 for the dryer, or \$500 for the pair. Retail price \$369/\$329. 925-240-5930

Sanyo SC-15 canister/upright vacuum cleaner w/10 extra bags. \$35. Good size for apartments. 925-829-7469

Black leather sofas with dual recliners; two identical leather sofas with recliners on both ends; 2 years old; moving; \$550 each 925-753-5131

Baby Crib, white with upgraded mattress. Great quality and condition. \$100. Call after 5 P.M. 209-239-3293

Kenmore model 70 washing machine, extra large capacity and extra heavy duty. Runs great. \$50 OBO 925-454-5214

King Size Headboard-approx 6ft oak side cabinets and drawers, lights,mirrors,storage compartment.Excel. cond \$1600 new, asking \$500 or B.O. 925-443-4848

Reverse Osmosis System, complete system which includes filter housings, under sink storage tank, faucett and manual; \$75 925-484-4099

LOST & FOUND

Lost one roll of Kodak 35mm film on site 10-30-00, 39835 209-526-6272

Sharp Electronic Organizer lost along East Ave bike path Friday Oct 20th - Reward 925-443-5565

FOUND. Black womens sweater w/gray emb.flowers. Area between B.132S and W. Cafe. 2-2799. 209-833-6202

MISCELLANEOUS

Jointer, 4-1/8inch x 25-inch long. 3-blades, ball-bearing. All cast-iron, belt-drive, with stand. \$70.00. 925-447-6099

US uncirc coin rolls (in vault):9 bicntl 25c, \$15 ea; 1 bicntl 50c, \$40; 2 Anthony \$1, \$50 ea. 925-455-0383

Treadmill, Image from Sears. Very good condition. 3 yrs old. Paid \$1200, sell for \$400. 925-443-5889

Girls Clothes, shoes, PJs, etc, 6mos to 4T, four (xerox) boses, all for \$65 925-373-6580

GREEN SOFA; rich color with pillowy, leather look; 3 years old; moving; \$375. 925-753-5131

Diamond Wedding Ring .58 karat appraised for \$3000 \$1500 obo 925-625-7213

In-house Garage Sale - furniture and appliances. Must sell - Moving - Best Offers apply. Call prior to 7P.M. for

more info or an appt. 925-455-9368

Planters 8 redwood for \$40 obo, 8 decorative clay for \$40 obo, 6 redwood fan trellis \$20, assorted steel lawn furniture \$20 obo 925-371-1465

Roto Tiller no engine. You haul. \$10.00 925-846-2843

8 Ft. camper fully self contained 6 pack. Gas/elec. refrig., hot water, shower, toilet, stove, oven, jacks. Everything in good cond. \$1,000.00 925-449-6830

Boxes, Moving, by Mayflower and Allied, assorted sizes, 100+ boxes, \$150.00 for all. 925-961-1658

FOLDING BABY CARRIAGE- with Canopy, Blue sturdy, goes in a trunk, only \$18. And Umbrella Stroller \$6 925-447-7070

MOTORCYCLES

1984 - Harley Davidson; last year shovelhead, first year 5-speed. Limited edition, low mileage, very good condition. \$11,200. 209-956-9036

1998 - Yamaha Warrior Quad, only 10hrs like new. \$3000 209-836-3969

Looking for Honda CBR900RR or F2 front wheel, also F2 rear wheel, reasonably priced. 209-824-2177

MUSIC INSTRUMENTS

Antique piano (19th century) for sale. Excellent condition. Best offer accepted. 925-426-0069

Antique, solid wood, piano, early 1900s. Was converted from a player-piano. Must sell before moving out of town mid-November. \$117.63, You haul. 925-449-5390

PETS & SUPPLIES

Columbian Red Tailed Boa, gentle 7 yr old with large 3X3 foot pine/glass cage. Must move and cannot keep. \$70 925-443-4643

RECREATION EQUIPMENT

Ten great N64 games for sale, plus accessories. Starting at \$10 per game. 606-1839.

In-Stride Walker exercise machine, excellent condition, \$50.00. 925-961-1658

Fischer E99 Radial crs-cntry skis, 200 cm; size 12 mens boots, used once. All: \$60. 925-455-0383

NordicTrack Pro w/computer to monitor heart rate, distance, etc. Adjusts for incline. Excellent condition. Paid \$600 new, asking \$250. 209-836-2511

1993 30 ft Fleetwood Ralley Motorhome. Must Sell! High BB \$33,000 will sacrifice at \$26,000 or make offer! Ask for Norma 925-449-6070

Weight set. Incline bench, flat bench. 2 bars 245 pounds olympic weights. Asking \$275. Call for details. 510-531-4399

RIDESHARING

Express your commute, call 2-RIDE for more information or visit the web site at <http://www.r.llnl.gov/tsmp/> for more information

San Franciso - Want to share the driving from SF to LLNL at least a few times a week? I have a car, flexible hours, & live in North Beach. 415-474-2761, ext. 4-3821

Walnut Creek - Pleasant Hill, Walnut Creek-Lavorna Vanpool, 14 passenger, reclining seats, reading lights, 8 to 4:45, Bargain Rate, 925-945-4926, ext. 2-2805

Fremont - Driver wanted for 9psgr van.8am-445pm.Have other drivers

to share driving. Friendly group. Drivers get \$\$ off monthly. 510-792-7848, ext. 4-3791

Berkeley - Berkeley- leave~7.30 Route: Cragmont,Eunice, Oxford, Dwight, Tunnel Road, Hghway13,580(Stop @Redwood Av.).Leave LLNL ~5.10.\$90 510-548-0704, ext. 2-6884

Modesto - Carpool of two looking to add two persons. Each drive one week per month. Meet near mall. work hrs 7:30-4:00 209-557-0456, ext. 3-3575

Lafayette - LaMoRinda (also Walnut Creek stop at Rudgear Rd) luxury Vanpool (reclining seats, reading lights) 8-4:45, \$115/mo (pretax reduction available) 925-376-5346, ext. 2-3005

Valley Springs - LINDEN, STOCK-TON: Rider wanted for carpool (7:00 a.m.-3:30 p.m.) leaving from Valley Springs at 5:10 a.m. 3-6997. 209-772-3141, ext. 2-4748

Salida/Ripon - Seeking to join car/vanpool. Work hours 7 a.m. - 3:30 p.m. flexible. 209-521-1913, ext. 2-7500

Oakland/Montclair - Montclair/580, friendly vanpool, reading lights, reclining seats. 8:15 - 5; Stops Montclair village, Lincoln/Hwy 13, Keller/Hwy 580; \$117/Mo. 510-547-4040, ext. 2-0064

North Sacramento - Starting New Sacramento Vanpool - Interested in a new 8-person vanpool with a north and a south area stop? Work hours: 7-3:30. 916-961-0625, ext. 4-4125

Sacramento / Elk Grove - Carpool is looking for another rider. Work hours 7am-3:30pm. The work time might change. 916-684-6525, ext. 3-2960

Ceres/Modesto - 14 psgr Enterprise luxury vanpool, 7:00-3:30 209-537-0229, ext. 3-6631

Modesto - Rider wanted. Park and ride Kansas/Rosemore area. 1 seat avail. \$80 mo. LLNL hrs. 8-5. 209-526-4404, ext. 2-5500

Modesto - 14 Passenger Luxury Van.8:00-4:30. One opening still available. We depart from Sisk & Pelandale at 6:50 AM. Save with pre-tax transit dollars. 209-521-9047, ext. 2-5177

San Francisco - Vanpool leaves DeHaro and Berry in San Francisco at 6:55 a.m., arrives at LLNL at 7:50 a.m. Leaves LLNL at 4:45 p.m. 415-621-5065, ext. 2-4572

SERVICES

Looking for a Santa this December? Call now to schedule. \$30/half hour or \$50/hr. 209-466-4442

House Painting - Exterior & Interior, free estimates with Lab discount. 925-447-5132

Roofing, 28 yrs experience, fully insured 925-454-9200

SHARED HOUSING

Livermore - Furnished room w/own bath in clean new home near Lab, freeway, shopping. House, yard, laundry use. Phone/cable outlet. N/S N/P \$550 incl utilities. 925-449-8034

TRUCKS & TRAILERS

1997 - Bounder motor home excellent condition only 13,000 miles sacrifice for taking over payments only. Must see 209-835-4790

1995 - Nissan King Cab XE pickup. Very clean, A/C, P/S, 5spd. This truck is very dependable, but we have too many trucks! \$7600/OBO. 925-516-9510

1993 - 30ft Fleetwood Ralley - MUST SELL! High BB \$33,000 - will sacrifice at \$26,000 or make offer! 925-449-6070

1992 - Chevy 1500 4x4, short bed,

step side 120k mi. \$5000 or B/O 209-836-3969

2000 - 2000 chevy s-10 blazer ls 9k miles white/grey fully loaded 23,950 or b/o 209-599-3983

1971 - Ford F-100, 2 wh drive, 427-V8, new tires, runs good, clean. \$3,000 OBO, call evenings, 925-961-1084

1989 - Ford F250,84K miles,AM/FM Cass.,CB,V8,7.5L, tow pkg.,camp.shell, new tires, 2 gas tanks, \$7500 925-447-4280

1985 - Ford E350 1 ton van. Cruise,air,CD,trailer rcvr, PS, PB, AT. Runs great. \$2500 925-455-8423

1972 - Dodge 3/4 ton pickup. 400, auto, runs, needs work. \$1,200. OBO. 925-456-3010

1993 - Chevy 1500 Extended Cab Silvarado Pickup, 47,150 miles, single owner, kept in garage, a/c, p/w, p/l, shell, bedliner, toolbox available, \$10,995 OBO 925-455-4046

1988 - Motor Home, Class A, Dolphin 31, Chevy 454. Fully self contained, excellent condition - \$26,900 or Best Offer. 209-239-8289

VACATION RENTALS

Maui, HI - Kahana Reef oceanfront 1BR/1BA condominium. Beautiful two-island view, oceanside pool, and BBQs. Low LLNL rates for year-round reservations. 925-449-0761

Cabo San Lucas, 2nd week in January. Cannot go. 5 Star Hotel. Luxury suit goes for 550 to 800/night. Asking \$975. Call for details 510-531-4399

Tahoe City - 3 bdrm, 1-1/2 ba twnhse, all amen. Close to ski resorts, , spa, slps 6 adults. \$300 wknd, \$650 Week. Still avail. holidays 925-672-5130

New Year week at S.Lake Tahoe, 2BR 2B fully equipped condo,slp6, swimming pool, free shuttle to ski lifts and casinos, 12/29-1/5,\$1,500, 925-299-0451 925-299-0451

SOUTH LAKE TAHOE - 3 Bedroom 2 Bath Chalet, nicely furnished,quiet area , all amenities,close to all ski areas,Thanksgiving,New Years week Open!Reserve Now! 209-599-4644

Kihei, Maui - Condo, RCI Gold Crown resort, Lg 1 bd, 2 ba, slps 4, big discount. 1 or 2 wks avail for 2001. Lv message. 925-447-0856

WANTED

Barney and sesame street Videos wanted. 209-544-8540

28-Gauge barrel for a Remington, Model 870 or 1100. 925-447-6099

Gas Dryer, Kenmore or Whirlpool White or Almond preferred. 925-443-5565

Granada High School parent interested in sharing carpooling Westside/Livermore area student. Please call 925-443-5732

WANTED - Large dog house. Free or at a very cheap price. Please call. 209-832-8723

Someone to install/hook up gas line for gas dryer in the Oakley area. Call and leave message. 925-625-2051

Old Hot Wheelles from the 60s and 70s, call 449-3152 925-449-3152

Organist to record church music on tape for approx. 30 hymns. 209-836-3041

Wanted- Person to help with yard-work, painting, auto repair, odd jobs, weekends or evenings Livermore or Pleasanton 925-447-7070

Space permitting, classified ads will return to two pages next week.





THE BACK PAGE



MARCIA JOHNSON/TID

Bruce Tarter and Jeff Wadsworth presented the inaugural Science and Technology Awards. At left is Tarter (left) and Wadsworth (right) with the Element 114 reserach team: Ken Moody, Nancy Stoyer, John Wild, Ron Loughheed. Not pictured is team member Mark Stoyer. At right, Tarter and Wadsworth honored the team whose super-computing research went on to win a prestigious Gordon Bell Award: Don Eliason, Art Mirin, Bill Dannevik, Bruce Curtis, Ron Cohen, Mark Duchaineau and Andris

AWARDS

Continued from page 1

of the Lab’s annual institutional awards program. Recently the Lab handed out special operations awards to employees who made key contributions during the Lab’s ISM certification process. Like those awards, the science and technology award recipients each received a cash award of \$1,000. “The winning achievements for the FY2000 Science and Technology Award are worthy of kicking off this new award component,” said Wadsworth, the deputy director of Science and Technology. In an informal ceremony preceding the Senior Management Meeting, Wadsworth honored the Lab’s team behind the discovery of element 114. Team members include Ron Loughheed, Ken Moody, Mark Stoyer, Nancy Stoyer and John Wild. Element 114 burst onto the Periodic Table back in December 1998. A team of Russian scientists at the Joint Institute of Nuclear Research in Dubna discovered the element, thanks to Laboratory scientists who provided film targets of plutonium-244. The plutonium isotope, which is difficult to manufacture, only exists in the United States. The Russian team bombarded the targets with cal-

cium-48 atoms for 40 days when they discovered one atom with 114 protons crammed into its nucleus, hence element 114. Discovery of the element will allow scientists to research the so-called “island of stability,” a region of long-lived super heavy nuclei that theorists have envisioned for three decades. As part of the experiment, Livermore scientists also provided independent data analysis of the results using Lab data codes, and joined in the collaboration on approaches toward achieving the team’s goals. “This puts us on the Periodic Table,” Wadsworth said of the team’s contributions, adding with a joke that “part of the pleasure is having researchers from Lawrence Berkeley Lab envious of us.” LBNL is known for its own discovery of periodic elements. **Supercomputing** The second award went to the team behind the Gordon Bell prize for supercomputing and 3D simulation. The Bell prize was given out last November in Portland, Ore. The Bell prize was presented for the Lab team’s groundbreaking work in using ASCI to solve a supercomputing problem with broad applications including supernova evolution, combustion physics and super-

sonic vehicle propulsion and dynamics. “This is a true tour de force in high-performance computing,” said Tarter before handing out institutional awards to the team behind the effort. Recipients include Ron Cohen, Bruce Curtis, Bill Dannevik, Andris Dimits, Mark Duchaineau, Don Eliason and Art Mirin. Also participating on the team was Dan Schikore, who is no longer at the Lab. Lab team members also collaborated with the University of Minnesota and IBM. The Gordon Bell Awards were created in 1988 to recognize the most significant achievements applying high-performance computers to scientific and engineering problems. The Lab’s award-winning submission, “Very High Resolution Simulation of Compressible Turbulence on the IBM-SP System,” studied the resultant turbulence when a shock wave passes through the interface of two fluids. Until the Lab’s effort, a turbulence simulation at such a high level of resolution had never been conducted before. Such unprecedented resolution enabled scientists to explore for the first time the interaction of significantly disparate-length scales of fluid motion and how this might impact the reactivity of interpenetrating fluids.

DIVERSITY

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acclaimed book “The Story of American Freedom,” employees are invited to participate in group discussions of the themes and concepts evoked by Foner. In order to reserve rooms and provide food, employees interested in joining the discussion are asked to register for the follow-on discussions. The deadline for signing up is close of business today, Friday, Nov. 3. “This is an excellent opportunity to initiate a focused and constructive dialogue on issues of diversity that are important to the Laboratory, and I encourage employees to participate,” said Director Bruce Tarter. Foner is the DeWitt Clinton Professor of History at Columbia University in New York and is the author of numerous historical works. “The Story of American Freedom” was a New York

Times Notable Book of the Year. His book “Reconstruction: America’s Unfinished Revolution, 1863-1877” earned him the Bancroft Prize, the Francis Parkman Prize and the Los Angeles Times Book Award. He is also a past president of the Organization of American Historians. All employees are invited to hear Foner’s talk. Those who wish to participate in the discussion groups immediately following the presentation need to register. A flyer with a registration form was distributed to employees last Friday; forms may also be downloaded from the Affirmative Action and Diversity Program Web page at: <http://www.llnl.gov/aadp/> “The open exchange of ideas is a hallmark of team science and a key to the Laboratory’s many successes in science and technology. We need to bring the same open exchange of ideas to meeting Laboratory workforce challenges,” Tarter said.

“The Facilitated Dialogue Series is one step in this direction.” For more information about registration or the dialogue series, contact Lorie Valle, 2-1770, or Michele Cardenas, 3-2796.

COOPER

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ciently met. And, more importantly, our computer security organization is among the best in the nation.” In addition to his duties as AD, Cooper served as the Laboratory’s first chief information officer, developing an information architecture plan to strategically guide the Laboratory’s future information technology investments.

“Dave has done an outstanding job of representing the Laboratory and DOE on national panels and conferences,” Tarter said. “He has been a very important member of the senior management team and we will miss his insights and constant efforts to push toward innovative solutions.” After stepping down as AD, Cooper has agreed to remain on the director’s staff to continue to represent the labs on national panels and committees and to take on special projects for the Laboratory.



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